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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/733,265	_	12/12/2003	Masashi Ohata	M&M-072-USA-P	8660	
27955	7590	12/09/2004		EXAM	EXAMINER	
TOWNSE			THOMAS	THOMAS, ERIC W		
601 PENNS SUITE 900		IIA AVE N.W. I BLDG	ART UNIT	PAPER NUMBER		
	WASHINGTON, DC 20004				-	
				DATE MAILED: 12/09/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		A the the Nh	<u> </u>				
3.		Application No.	Applicant(s)				
	Office Action Summany	10/733,265	OHATA ET AL.				
	Office Action Summary	Examiner	Art Unit				
	,	Eric W Thomas	2831				
Period fo	The MAILING DATE of this communication apports.	pears on the cover sheet with the c	orrespondence address				
THE - Exte after - If the - If NO - Failt Any	IORTENED STATUTORY PERIOD FOR REPLIMAILING DATE OF THIS COMMUNICATION.  Insions of time may be available under the provisions of 37 CFR 1.1 (SIX (6) MONTHS from the mailing date of this communication.  The period for reply specified above is less than thirty (30) days, a replication period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)🖂	Responsive to communication(s) filed on 12 D	ecember 2003.					
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ This	action is non-final.					
3)	·-						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠	Claim(s) 1-9 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)[	5) Claim(s) is/are allowed.						
6)⊠	☑ Claim(s) 1,2,8 and 9 is/are rejected.						
7)🖂	☑ Claim(s) <u>3-7</u> is/are objected to.						
8)□	Claim(s) are subject to restriction and/o	r election requirement.					
Applicat	ion Papers						
9)[	The specification is objected to by the Examine	er.					
10)🛛	10)⊠ The drawing(s) filed on <u>12/12/03</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	∋ 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	Action or form PTO-152.				
Priority (	under 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority document  2. Certified copies of the priority document	s have been received. s have been received in Applicati	on No				
	3. Copies of the certified copies of the prio	•	ed in this National Stage				
	application from the International Bureau	· · · · · · · · · · · · · · · · · · ·					
- \$	See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachmen	nt(s)						
	ce of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notic	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date <u>12/03</u> .	5) Notice of Informal P 6) Other:	atent Application (PTO-152)				

## Claim Objections

1. Claim 4 is objected to because of the following informalities:

Claim 4 recites the limitation "said silicone" in line 2. There is insufficient antecedent basis for this limitation in the claim. The examiner examined this claim as if it depended on claim 3.

Appropriate correction is required.

### Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-2, 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Zhang et al. (US 5,834,137).

Zhang et al. disclose a solid electrolyte (abstract), wherein the solid electrolyte is formed by baking (col 4 lines 40-55) a thin film in which a silicon compound (col. 4 lines 5-15) contains a metal salt compound (col. 4 lines 20-25).

Regarding claim 2, Zhang et al. disclose the metal salt compound is a lithium salt compound (col. 4 lines 20-25).

Regarding claim 8, Zhang et al. disclose the claimed invention. Regarding the limitation, "the solid electrolyte was prepared by baking at a temperature of 400 degrees C or higher" is a method of forming the device. The method of forming the device is not

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germane to the issue of patentability of the device itself. Therefore, this limitation has not been given patentable weight. In re STEPHENS, WENZL, AND BROWNE, 145 USPQ 656 (CCPA 1965).

#### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Zhang et al. (US 5,834,137) in view of Fukuda et al. (US 4,780,796).

Regarding claim 9, Zhang et al. disclose the claimed invention except for the electrolyte is used in a capacitor wherein the electrolyte is disposed between two electrodes.

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It should be noted that the electrolyte of Zhang et al. is not limited to a battery (as seen in col. 3 lines 1-10).

Fukuda et al. teach that it is known in the capacitor art to form an electrolyte containing lithium between two electrodes.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to form the electrolyte of Zhang et al. in a capacitor system as taught by Fukuda et al., since such a modification would provide an electrical system for the electrolyte to function in and would provide the capacitor with an high scratch resistant film.

#### Allowable Subject Matter

- 7. Claims 3-7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. The following is a statement of reasons for the indication of allowable subject matter: The prior art does not teach or fairly suggest (taken in combination with the other claimed features) a solid electrolyte wherein the thin film contains at least either a polysilane or a silicone compound (claims 3-4); and the thin film contains at least one of peroxide and benzophenon derivative (claims 5-7).

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#### Conclusion

In order to ensure full consideration of any amendments, affidavits, or declaration, or other documents as evidence of patentability, such documents must be submitted in response to this Office action. Submissions after the next Office action, which is intended to be a final action, will be governed by the requirements of 37 CFR 1. 116 which will be strictly enforced.

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Re. 35,818 – discloses a battery having a positive electrode that is baked.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric W Thomas whose telephone number is 571-272-1985. The examiner can normally be reached on M,Tu,Sat 9 am - 9:30 pm; W, Th, F 6 pm -10:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on 571-272-1984. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eric W Thomas
Examiner
Art Unit 2831

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